

DSM Akulon® K224-LG6 Nylon 6-30% Glass Reinforced (European and Asian Grade) (Cond)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

The Akulon® product portfolio is engineered for optimum performance to suit different processing techniques and end use markets. Akulon Nylon 6 is used for extrusion applications including barrier film, stock shapes, convoluted tubes, and monofilament. Akulon XP is a high-productivity, high-performance PA6 grade for film extrusion processes. Medium viscosity, unreinforced or reinforced Akulon grades are used for various injection molding and blow molding applications. Akulon® Ultraflow® is a high-productivity, high-performance PA6 family for molding processes. Key applications for Akulon: Automotive: Intake manifold, Engine, Powertrain, Airbag containers, Exterior trim, Interior trim, Electrical components and connectors Consumer durables: Power tools, Lawn and garden tools, Small appliances, Sports and leisure equipment, Furniture, Industrial Goods, Transportation E&E: Low voltage switch gear/power distribution, Lighting, Power connectors Film: Specialty and barrier films Information provided by DSM.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-K224-LG6-Nylon-6-30-Glass-Reinforced-European-and-Asian-Grade-Cond.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------|---------------------------|---|
| Density | 1.35 g/cc | 0.0488 lb/in ³ | (DAM); ISO 1183 |
| Water Absorption | 6.3 % | 6.3 % | DAM; Sim. to ISO 62 |
| Moisture Absorption at Equilibrium | 1.9 % | 1.9 % | Humidity Absorption (DAM); Sim. to ISO 62 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength at Break | 100 MPa | 14500 psi | ISO 527-1/-2 |
| Elongation at Break | 4.5 % | 4.5 % | ISO 527-1/-2 |
| Tensile Modulus | 4.90 GPa | 711 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 6.50 J/cm ² | 30.9 ft-lb/in ² | ISO 179/1eU |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact Unnotched | 9.00 J/cm ² | 42.8 ft-lb/in ² | ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.800 J/cm ² | 3.81 ft-lb/in ² | ISO 179/1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 2.00 J/cm ² | 9.52 ft-lb/in ² | ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|--------------------------------|
| Melting Point | 220 °C | 428 °F | 10°C/min (DAM); ISO 11357-1/-3 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|--------------------|-------------|
| Volume Resistivity | 1.00e+13 ohm-cm | 1.00e+13 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+14 ohm | 1.00e+14 ohm | IEC 60093 |
| Dielectric Constant | 5.0 | 5.0 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dielectric Strength | 20 | 20 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 20.0 kV/mm | 508 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.12 | 0.12 | IEC 60250 |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dissipation Factor | 0.30 | 0.30 | IEC 60250 |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Comparative Tracking Index | 600 V | 600 V | IEC 60112 |

| Descriptive Properties | Value | Comments |
|--------------------------------------|-------|----------|
| Heat stabilized or stable to heat | Yes | |
| Injection molding | Yes | |
| Light stabilized or stable to light | Yes | |
| Release Agent | Yes | |
| U.V. stabilized or stable to weather | Yes | |
| With Fillers | Yes | |

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